SEQUENCE LISTING

(1) GENERAL INFORMATION:

- (i) APPLICANT: E. I. DU PONT DE NEMOURS AND COMPANY
- (ii) TITLE OF INVENTION: CHIMERIC GENES AND

 METHODS FOR INCREASING
 INCREASING THE LYSINE
 AND THREONINE CONTENT
 OF THE SEEDS OF PLANTS
- (iii) NUMBER OF SEQUENCES: 107
- (iv) CORRESPONDENCE ADDRESS:
 - (A) ADDRESSEE: E. I. DU PONT DE NEMOURS AND COMPANY
 - (B) STREET: 1007 MARKET STREET
 - (C) CITY: WILMINGTON
 - (D) STATE: DELAWARE
 - (E) COUNTRY: U.S.A.
 - (F) ZIP: 19898
- (v) COMPUTER READABLE FORM:
 - (A) MEDIUM TYPE: FLOPPY DISK
 - (B) COMPUTER: IBM PC COMPATIBLE
 - (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 - (D) SOFTWARE: MICROSOFT WORD VERSION 2.0C
- (vi) CURRENT APPLICATION DATA:
 - (A) APPLICATION NUMBER:
 - (B) FILING DATE:
 - (C) CLASSIFICATION:
- (viii) ATTORNEY/AGENT INFORMATION:
 - (A) NAME: BARBARA C. SIEGELL
 - (B) REGISTRATION NUMBER: 30,684
 - (C) REFERENCE/DOCKET NUMBER: BB-1037-C
 - (ix) TELECOMMUNICATION INFORMATION:
 - (A) TELEPHONE: 302-992-4931
 - (B) TELEFAX: 302-773-0164
 - (C) TELEX: 835420

(2)

INFORMATION FOR SEQ ID NO:1:

		(i)	SEQI (A) (B) (C) (D)	T S	engti Ype:	nu nuc DEDNI	1350 cleic ESS:	base c ac:	e pa:	irs						
	€:	ii)	MOL	ECULI	E TYI	PE:	DNA	(ge:	nomi	=)						
				TURE		•		13-		-,						
	ι.	ix)	(A)			KEY:	CDS	3								
			(B)	L	OCAT:	ION:	1.	.135	0							
	(:	ĸi)	SEQ	UENCI	E DES	SCRI	PTIO	v: :	SEQ :	ID NO	0:1:					
	GCT															48
Met 1	Ala	Glu	Ile	Val 5	Val	Ser	Lys	Phe	Gly 10	Gly	Thr	Ser	Val	Ala 15	Asp	
TTT	GAC	GCC	ATG	AAC	CGC	AGC	GCT	GAT	ATT	GTG	CTT	TCT	GAT	GCC	AAC	96
Phe	Asp	Ala	Met 20	Asn	Arg	Ser	Ala	Asp 25	Ile	Val	Leu	Ser	Asp 30	Ala	Asn	
			20					23					30			
	CGT Arg															144
V CL .	my	35	V Q L	*41	Dea	Der	40	Der	nia	GLY	110	45	ASII	Дец	Deu	
GTC	GCT	TTA	GCT	GAA	GGA	CTG	GAA	CCT	GGC	GAG	CGA	TTC	GAA	AAA	CTC	192
Val	Ala 50	Leu	Ala	Glu	Gly	Leu 55	Glu	Pro	Gly	Glu	Arg 60	Phe	Glu	Lys	Leu	
GAC	GCT	ATÇ	CGC	AAC	ATC	CAG	TTT	GCC	ATT	CTG	GAA	CGT	CTG	CGT	TAC	240
_	Ala	Ile	Arg	Asn		Gln	Phe	Ala	Ile		Glu	Arg	Leu	Arg	-	
65					70					75					80	
	AAC Asn															288
110	ASII	Val	116	85	GIU		116	GIU	90	neu	Бец	GIU	ASII	95		
GTT	CTG	GCA	GAA	GCG	GCG	GCG	CTG	GCA	ACG	TCT	CCG	GCG	CTG	ACA	GAT	336
Val	Leu	Ala	Glu 100	Ala	Ala	Ala	Leu	Ala 105	Thr	Ser	Pro	Ala	Leu 110	Thr	Asp	
			100					100					110			
	CTG Leu															384
O.L.	Dou	115	001		OL,	014	120	1100	001		200	125		V u2	010	
ATC	CTG	CGC	GAA	CGC	GAT	GTT	CAG	GCA	CAG	TGG	TTT	GAT	GTA	CGT	AAA	432
Ile	Leu 130	Arg	Glu	Arg	Asp	Val 135	Gln	Ala	Gln	Trp	Phe 140	Asp	Val	Arg	Lys	
	130					133					140					
	ATG															480
145	Met	wrd	IHE	ASII	150	Arg	FIIG	стХ	wrd	155	GIU	FIO	нзр	TTG	160	
GCG	CTG	GCG	GAA	CTG	GCC	GCG	CTG	CAG	CTG	CTC	CCA	CGT	CTC	AAT	GAA	528

Ala Leu Ala Glu Leu Ala Ala Leu Gln Leu Leu Pro Arg Leu Asn Glu

165 170 175

		GTG Val														576
		ACG Thr 195														624
		GCT Ala														672
		TAC Tyr														720
	-	ATC Ile														768
		CTG Leu														816
		TTT Phe 275														864
		AAT Asn														912
	CGC	2 2 10	~~~	3 CIII	CTG	CTC	ACT	TTG	CAC	AGC	CTG	TAA	ATG	CTG	$C\Delta T$	960
305	Arg	Asn														
305 TCT	CGC		Gln TTC	Thr	Leu 310 GCG	Leu GAA	Thr	Leu	His	Ser 315 ATC	Leu	Asn(Met	Leu CAT	His 320 AAT	1008
305 TCT Ser	CGC Arg	Asn	Gln TTC Phe GAC	Thr CTC Leu 325	Leu 310 GCG Ala ATC	GAA Glu ACC	Thr GTT Val	TTC Phe	GGC Gly 330 GAA	Ser 315 ATC Ile	CTC Leu	GCG Ala	CGG Arg	CAT His 335	His 320 AAT Asn	
305 TCT Ser ATT Ile	CGC Arg TCG Ser	Asn GGT Gly GTA	TTC Phe GAC Asp 340	Thr CTC Leu 325 TTA Leu GGT	Leu 310 GCG Ala ATC Ile	GAA Glu ACC Thr	Thr GTT Val ACG Thr	TTC Phe TCA Ser 345	GGC Gly 330 GAA Glu	Ser 315 ATC Ile GTG Val	CTC Leu AGC Ser	GCG Ala GTG Val	CGG Arg GCA Ala 350 CTG	CAT His 335 TTA Leu	His 320 AAT Asn ACC Thr	1008
305 TCT Ser ATT Ile CTT Leu TCT	CGC Arg TCG Ser GAT Asp	GGT Gly GTA Val	Gln TTC Phe GAC Asp 340 ACC Thr	Thr CTC Leu 325 TTA Leu GGT Gly	Leu 310 GCG Ala ATC Ile TCA Ser	GAA Glu ACC Thr ACC	GTT Val ACG Thr TCC Ser 360 GCA	TTC Phe TCA Ser 345 ACT Thr	GGC Gly 330 GAA Glu GGC Gly	Ser 315 ATC Ile GTG Val GAT Asp	CTC Leu AGC Ser ACG Thr	GCG Ala GTG Val TTG Leu 365	Met CGG Arg GCA Ala 350 CTG Leu	CAT His 335 TTA Leu ACG Thr	His 320 AAT ASN ACC Thr CAA Gln	1008

GCC GTT GGC AAA GAG GTA TTC GGC GTA CTG GAA CCG TTC AAA AAA WAA GAG GTA TTC GGC GTA CTG GAA CCG TTC AAAA AAA AAA GAG GTA TTC GGC GTA CTG GAA CCG TTC AAAA AAA AAAA A	AC ATT CGC 1248 sn Ile Arg 415
ATG ATT TGT TAT GGC GCA TCC AGC CAT AAC CTG TGC TTC CTMet Ile Cys Tyr Gly Ala Ser Ser His Asn Leu Cys Phe Let 420 425 43	
GGC GAA GAT GCC GAG CAG GTG GTG CAA AAA CTG CAT AGT AAGT GLy Glu Asp Ala Glu Gln Val Val Gln Lys Leu His Ser As 435 440 445	
GAG TAA Glu * 450	1350
(2) INFORMATION FOR SEQ ID NO:2:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 36 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA (genomic)	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:	
GATCCATGGC TGAAATTGTT GTCTCCAAAT TTGGCG	36
(2) INFORMATION FOR SEQ ID NO:3:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 36 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA (genomic)	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:	
GTACCGCCAA ATTTGGAGAC AACAATTTCA GCCATG	36
(2) INFORMATION FOR SEQ ID NO:4:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 48 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA (genomic)	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:	
CCCGGGCCAT GGCTACAGGT TTAACAGCTA AGACCGGAGT AGAGCACT	48

(2)	IN	IFORM	ATIC	N FC	R SE	Q II	NO:	5:								
	((i)	SEQU (A) (B) (C) (D)	LE TY SI	NGTH PE: RANI	RACT I: 3 nuc DEDNE	7 ba :leic :SS:	se p aci sin	airs d	,						
	(i	.i)	MOLE	CULE	TYE	E:	DNA	(gen	omic	;)						
	(2	ci)	SEQU	JENCE	E DES	CRIE	TION	r: S	EQ I	D NC):5:					
GATA	ATCGA	AT T	rctc <i>i</i>	TTAT	'A G	ACTO	CAGO	TTI	TTTC	:			37	•		
(2)	IN	IFORI	ATIC	ON FO	R SE	EQ II	NO:	6:								
	•	(i)	(A) (B)	LE TY ST	engti (PE : [rani	ARACT H: 9 nuc DEDNE DGY:	17 t cleic SSS:	ase aci sir	pair .d	s						
	Ė)	ii)	MOLE	ECULI	TYI	PE:	DNA	(ger	omic	;)						
		ix)	(A) (B)	Ŀ	AME/I	KEY:	3	911	reo i	rp. N/	 .					
CC 1	·	ci)				SCRII						EAG (CAC 1	rtc (GC:	47
													His F			
													GGA Gly			95
													GAT Asp 45			143
			Leu										CCA Pro			191
													GAG Glu			239
													AAC Asn			287
													GCA Ala			335

CTT TTA GTT GTA ACT CCT TAT TAC TCC AAG CCG AGC CAA GAG GGA TTG Leu Leu Val Val Thr Pro Tyr Tyr Ser Lys Pro Ser Gln Glu Gly Leu CTG GCG CAC TTC GGT GCA ATT GCT GCA GCA ACA GAG GTT CCA ATT TGT Leu Ala His Phe Gly Ala Ile Ala Ala Thr Glu Val Pro Ile Cys 135 CTC TAT GAC ATT CCT GGT CGG TCA GGT ATT CCA ATT GAG TCT GAT ACC Leu Tyr Asp Ile Pro Gly Arg Ser Gly Ile Pro Ile Glu Ser Asp Thr 150 ATG AGA CGC CTG AGT GAA TTA CCT ACG ATT TTG GCG GTC AAG GAC GCC Met Arg Arg Leu Ser Glu Leu Pro Thr Ile Leu Ala Val Lys Asp Ala 160 165 170 AAG GGT GAC CTC GTT GCA GCC ACG TCA TTG ATC AAA GAA ACG GGA CTT Lys Gly Asp Leu Val Ala Ala Thr Ser Leu Ile Lys Glu Thr Gly Leu 180 190 GCC TGG TAT TCA GGC GAT GAC CCA CTA AAC CTT GTT TGG CTT GCT TTG Ala Trp Tyr Ser Gly Asp Asp Pro Leu Asn Leu Val Trp Leu Ala Leu GGC GGA TCA GGT TTC ATT TCC GTA ATT GGA CAT GCA GCC CCC ACA GCA Gly Gly Ser Gly Phe Ile Ser Val Ile Gly His Ala Ala Pro Thr Ala 215 TTA CGT GAG TTG TAC ACA AGC TTC GAG GAA GGC GAC CTC GTC CGT GCG Leu Arg Glu Leu Tyr Thr Ser Phe Glu Glu Gly Asp Leu Val Arg Ala 225 230 CGG GAA ATC AAC GCC AAA CTA TCA CCG CTG GTA GCT GCC CAA GGT CGC Arg Glu Ilè Asn Ala Lys Leu Ser Pro Leu Val Ala Ala Gln Gly Arg 240 245 250 TTG GGT GGA GTC AGC TTG GCA AAA GCT GCT CTG CGT CTG CAG GGC ATC Leu Gly Gly Val Ser Leu Ala Lys Ala Ala Leu Arg Leu Gln Gly Ile 260 AAC GTA GGA GAT CCT CGA CTT CCA ATT ATG GCT CCA AAT GAG CAG GAA Asn Val Gly Asp Pro Arg Leu Pro Ile Met Ala Pro Asn Glu Glu Glu 275 CTT GAG GCT CTC CGA GAA GAC ATG AAA AAA GCT GGA GTT CTA TAA TGAGAATTC 918 Leu Glu Ala Leu Arg Glu Asp Met Lys Lys Ala Gly Val Leu *

INFORMATION FOR SEQ ID NO:7: (2)

290

- SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 22 base pairs

295

- TYPE: nucleic acid (B)
- STRANDEDNESS: single (C)
- TOPOLOGY: linear (D)
- (ii) MOLECULE TYPE: DNA (genomic)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:	
CTTCCCGTGA CCATGGGCCA TC 22	
(2) INFORMATION FOR SEQ ID NO:8:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 75 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA (genomic)	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:	
CATGGCTGGC TTCCCCACGA GGAAGACCAA CAATGACATT ACCTCCATTG CTAGCAA	.CGG 60
TGGAAGAGTA CAATG	75
(2) INFORMATION FOR SEQ ID NO:9:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 75 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA (genomic)	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:	
CATGCATTGT ACTCTTCCAC CGTTGCTAGC AATGGAGGTA ATGTCATTGT TGGTCTT	CCT 60
CGTGGGGAAG CCAGC	75
(2) INFORMATION FOR SEQ ID NO:10:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 90 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA (genomic)	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:	
CATGGCTTCC TCAATGATCT CCTCCCCAGC TGTTACCACC GTCAACCGTG CCGGTGC	CGG 60
CATGGTTGCT CCATTCACCG GCCTCAAAAG	90
(2) INFORMATION FOR SEQ ID NO:11:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 90 base pairs(B) TYPE: nucleic acid	

(D) TOPOLOGY: linear
(ii) MOLECULE TYPE: DNA (genomic)
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:
CATGCTTTTG AGGCCGGTGA ATGGAGCAAC CATGCCGGCA CCGGCACGGT TGACGGTGGT 60
AACAGCTGGG GAGGAGATCA TTGAGGAAGC 90
(2) INFORMATION FOR SEQ ID NO:12:
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear
(ii) MOLECULE TYPE: DNA (genomic)
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:
CCGGTTTGCT GTAATAGGTA CCA 23
(2) INFORMATION FOR SEQ ID NO:13:
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 31 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear
(ii) MOLECULE TYPE: DNA (genomic)
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:
AGCTTGGTAC CTATTACAGC AAACCGGCAT G 31
(2) INFORMATION FOR SEQ ID NO:14:
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 27 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear
(ii) MOLECULE TYPE: DNA (genomic)
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:
GCTTCCTCAA TGATCTCCTC CCCAGCT 27
(2) INFORMATION FOR SEQ ID NO:15:
(i) SEQUENCE CHARACTERISTICS:

(C)

STRANDEDNESS: single

LENGTH: 28 base pairs TYPE: nucleic acid

(A) (B)

			STRANDEDNESS: single TOPOLOGY: linear	
	(ii)	MOLEC	ULE TYPE: DNA (genomic)	
	(xi)	SEQUE	NCE DESCRIPTION: SEQ ID NO:15:	
CATTO	GTACTC	TTCCAC	CGTT GCTAGCAA	28
(2)	INFOR	MATION	FOR SEQ ID NO:16:	
	(i)	(A) (B) (C)	NCE CHARACTERISTICS: LENGTH: 20 base pairs TYPE: nucleic acid STRANDEDNESS: single TOPOLOGY: linear	
	(ii)	MOLEC	ULE TYPE: DNA (genomic)	
	(ix)	(B)	RE: NAME/KEY: misc_feature LOCATION: 120 OTHER INFORMATION: /product= "synth oligonucleoti /standard_nam 70"	de"
	(xi)	SEQ	UENCE DESCRIPTION: SEQ ID NO:16:	
CTGAC	CTCGCT	GCGCTC	GGTC	20
(2)	INFOR	MATION	FOR SEQ ID NO:17:	
	(i)	(A)	NCE CHARACTERISTICS: LENGTH: 24 base pairs TYPE: nucleic acid STRANDEDNESS: single TOPOLOGY: linear	
	(ii)	MOLEC	ULE TYPE: DNA (genomic)	
	(ix)	FEATU (A) (B) (D)	NAME/KEY: misc_feature LOCATION: 124	de"
	(xi)	SEQUE	NCE DESCRIPTION: SEQ ID NO:17:	
CATTI	TCTCC	TTACGC	ATCT GTGC	24
(2)	INFOR	MATION	FOR SEQ ID NO:18:	
	(i)	SEQUEI (A) (B)	NCE CHARACTERISTICS: LENGTH: 27 base pairs TYPE: nucleic acid	

(C)

	(C) (D)	_	
(ii)	MOLEC	ULE TYPE: DNA (genomic)	
(ix)	(A) (B)	NAME/KEY: misc_feature LOCATION: 127	roduct= "synthetic oligonucleotide" /standard_name= "SM 78"
(xi)	SEQUE	NCE DESCRIPTION: SEQ II	NO:18:
TTCATCGATA	GGCGAC	CACA CCCGTCC	27
(2) INFO	RMATION	FOR SEQ ID NO:19:	
(1)	(A) (B) (C)	INCE CHARACTERISTICS: LENGTH: 27 base pairs TYPE: nucleic acid STRANDEDNESS: single TOPOLOGY: linear	
(ii)	MOLEC	CULE TYPE: DNA (genomic))
(ix)		NAME/KEY: misc_feature LOCATION: 127	e roduct= "synthetic oligonucleotide" /standard_name= "SM 79"
(xi)	SEQUE	NCE DESCRIPTION: SEQ I	D NO:19:
AATATCGATG	CCACGA	TGCG TCCGGCG	27
(2) INFO	RMATION	FOR SEQ ID NO:20:	
(i)	SEQUE (A) (B) (C) (D)	NCE CHARACTERISTICS: LENGTH: 55 base pairs TYPE: nucleic acid STRANDEDNESS: single TOPOLOGY: linear	
(ii)	MOLEC	CULE TYPE: DNA (genomic)
(ix)	FEATU (A) (B) (D)	NAME/KEY: misc_feature LOCATION: 155	e roduct= "synthetic oligonucleotide" /standard_name= "SM 81"

(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:20:	
CATGGAGGAG	AAGATGAAGG CGATGGAAGA GAAGATGAAG GCGTGATAGG TACCG	55
(2) INFO	RMATION FOR SEQ ID NO:21:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: DNA (genomic)	
(ix)	FEATURE: (A) NAME/KEY: misc_feature (B) LOCATION: 155 (D) OTHER INFORMATION: /product= "synthetic oligonucleotide" /standard_name= "SM 80"	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:21:	
AATTCGGTAC	CTATCACGCC TTCATCTTCT CTTCCATCGC CTTCATCTTC TCCTC	55
(2) INFOR	RMATION FOR SEQ ID NO:22:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: unknown (D) TOPOLOGY: unknown	
(ii)	MOLECULE TYPE: protein	
(ix)	FEATURE: (A) NAME/KEY: Protein (B) LOCATION: 114 (D) OTHER INFORMATION: /label= name /note= "base gene [(SSP5)2]"	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:22:	
Met Gl 1	u Glu Lys Met Lys Ala Met Glu Glu Lys Met Lys Ala 5 10	
(2) INFOR	MATION FOR SEQ ID NO:23:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single	

(ii) MOLECULE TYPE: DNA (genomic)

(ix)

FEATURE:

		NAME/KEI: misc_feature	
		LOCATION: 121	d
	(D)	OTHER INFORMATION: /pr	"synthetic
			oligonucleotide"
			/standard name= "SM
			84"
			-
(xi)	SEQUE	NCE DESCRIPTION: SEQ II	NO:23:
, ,	- -		
GATGGAGGAG	AAGATG	AAGG C	21
(2) INFO	RMATION	FOR SEQ ID NO:24:	
(i)	SEQUE	NCE CHARACTERISTICS:	
	(A)	LENGTH: 21 base pairs	
	(B)	TYPE: nucleic acid	
	(C)	STRANDEDNESS: single	
	(D)	TOPOLOGY: linear	
(ii)	MOLEC	ULE TYPE: DNA (genomic)	
(ix)	FEATU	RE:	
	(A)	NAME/KEY: misc_feature)
	(B)	LOCATION: 121	
	(D)	OTHER INFORMATION: /pr	coduct= "synthetic
			oligonucleotide"
			/standard_name= "SM
			85"
(xi)	SEQUE	NCE DESCRIPTION: SEQ II	NO:24:
	•		
ATCGCCTTCA	TCTTCT	CCTC C	21
(2) INFO	RMATION	FOR SEQ ID NO:25:	
	2501	1100 CHARACTER TOTAL	
(i)		NCE CHARACTERISTICS:	
(i)	(A)	LENGTH: 21 base pairs	
(1)	(A) (B)	LENGTH: 21 base pairs TYPE: nucleic acid	
(i)	(A) (B) (C)	LENGTH: 21 base pairs TYPE: nucleic acid STRANDEDNESS: single	
(1)	(A) (B)	LENGTH: 21 base pairs TYPE: nucleic acid	
	(A) (B) (C) (D)	LENGTH: 21 base pairs TYPE: nucleic acid STRANDEDNESS: single TOPOLOGY: linear	
(i) (ii)	(A) (B) (C) (D)	LENGTH: 21 base pairs TYPE: nucleic acid STRANDEDNESS: single	
(ii)	(A) (B) (C) (D) MOLEC	LENGTH: 21 base pairs TYPE: nucleic acid STRANDEDNESS: single TOPOLOGY: linear ULE TYPE: DNA (genomic)	
	(A) (B) (C) (D) MOLEC	LENGTH: 21 base pairs TYPE: nucleic acid STRANDEDNESS: single TOPOLOGY: linear ULE TYPE: DNA (genomic) RE:	
(ii)	(A) (B) (C) (D) MOLEC FEATU (A)	LENGTH: 21 base pairs TYPE: nucleic acid STRANDEDNESS: single TOPOLOGY: linear ULE TYPE: DNA (genomic) RE: NAME/KEY: misc_feature	
(ii)	(A) (B) (C) (D) MOLEC FEATU (A) (B)	LENGTH: 21 base pairs TYPE: nucleic acid STRANDEDNESS: single TOPOLOGY: linear ULE TYPE: DNA (genomic) RE: NAME/KEY: misc_feature LOCATION: 121	3
(ii)	(A) (B) (C) (D) MOLEC FEATU (A) (B)	LENGTH: 21 base pairs TYPE: nucleic acid STRANDEDNESS: single TOPOLOGY: linear ULE TYPE: DNA (genomic) RE: NAME/KEY: misc_feature LOCATION: 121	e coduct= "synthetic
(ii)	(A) (B) (C) (D) MOLEC FEATU (A) (B)	LENGTH: 21 base pairs TYPE: nucleic acid STRANDEDNESS: single TOPOLOGY: linear ULE TYPE: DNA (genomic) RE: NAME/KEY: misc_feature LOCATION: 121	oduct= "synthetic oligonucleotide"
(ii)	(A) (B) (C) (D) MOLEC FEATU (A) (B)	LENGTH: 21 base pairs TYPE: nucleic acid STRANDEDNESS: single TOPOLOGY: linear ULE TYPE: DNA (genomic) RE: NAME/KEY: misc_feature LOCATION: 121	oduct= "synthetic oligonucleotide" /standard_name= "SM
(ii)	(A) (B) (C) (D) MOLEC FEATU (A) (B)	LENGTH: 21 base pairs TYPE: nucleic acid STRANDEDNESS: single TOPOLOGY: linear ULE TYPE: DNA (genomic) RE: NAME/KEY: misc_feature LOCATION: 121	oduct= "synthetic oligonucleotide"
(ii) (ix)	(A) (B) (C) (D) MOLEC FEATU (A) (B) (D)	LENGTH: 21 base pairs TYPE: nucleic acid STRANDEDNESS: single TOPOLOGY: linear ULE TYPE: DNA (genomic) RE: NAME/KEY: misc_feature LOCATION: 121 OTHER INFORMATION: /pr	coduct= "synthetic oligonucleotide" /standard_name= "SM 82"
(ii)	(A) (B) (C) (D) MOLEC FEATU (A) (B) (D)	LENGTH: 21 base pairs TYPE: nucleic acid STRANDEDNESS: single TOPOLOGY: linear ULE TYPE: DNA (genomic) RE: NAME/KEY: misc_feature LOCATION: 121	coduct= "synthetic oligonucleotide" /standard_name= "SM 82"
(ii) (ix)	(A) (B) (C) (D) MOLEC FEATU (A) (B) (D)	LENGTH: 21 base pairs TYPE: nucleic acid STRANDEDNESS: single TOPOLOGY: linear ULE TYPE: DNA (genomic) RE: NAME/KEY: misc_feature LOCATION: 121 OTHER INFORMATION: /pr	coduct= "synthetic oligonucleotide" /standard_name= "SM 82"

(2) INFORMATION B	FOR	SEQ	ID	NO:26:
-------------------	-----	-----	----	--------

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 21 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (ix) FEATURE:
 - (A) NAME/KEY: misc feature
 - (B) LOCATION: 1..21
 - (D) OTHER INFORMATION: /product= "synthetic oligonucleotide" /standard_name= "SM
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:26:

ATCGCCTTCA GCTTCTCCTC C

21

- (2) INFORMATION FOR SEQ ID NO:27:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 7 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: unknown
 - (D) TOPOLOGY: unknown
 - (ii) MOLECULE TYPE: protein
 - (xi) · SEQUENCE DESCRIPTION: SEQ ID NO:27:

Met Glu Glu Lys Leu Lys Ala 1 5

- (2) INFORMATION FOR SEQ ID NO:28:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 7 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: unknown
 - (D) TOPOLOGY: unknown
 - (ii) MOLECULE TYPE: protein
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:28:

Met Glu Glu Lys Met Lys Ala 1 5

- (2) INFORMATION FOR SEQ ID NO:29:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 160 base pairs
 - (B) TYPE: nucleic acid

```
MOLECULE TYPE: DNA (genomic)
       (ii)
       (vi)
             ORIGINAL SOURCE:
              (B) STRAIN: E. coli
              (G) CELL TYPE: DH5 alpha
      (vii)
              IMMEDIATE SOURCE:
              (B) CLONE: C15
             FEATURE:
       (ix)
              (A) NAME/KEY: CDS
              (B) LOCATION: 2..151
              (D) OTHER INFORMATION: /function= "synthetic
                                          storage protein"
                                          /product= "protein"
                                          /gene= "ssp"
                                          /standard_name=
                                          "5.7.7.7.7.5"
       (xi)
             SEQUENCE DESCRIPTION: SEQ ID NO:29:
C ATG GAG GAG AAG ATG AAG GCG ATG GAG GAG AAG CTG AAG GCG ATG
                                                                  46
  Met Glu Glu Lys Met Lys Ala Met Glu Glu Lys Leu Lys Ala Met
    1
                                        10
GAG GAG AAG CTG AAG GCG ATG GAG GAG AAG CTG AAG GCG ATG GAG GAG
Glu Glu Lys Leu Lys Ala Met Glu Glu Lys Leu Lys Ala Met Glu Glu
                 20
AAG CTG AAG GCG ATG GAG GAG AAG CTG AAG GCG ATG GAA GAG AAG ATG 142
Lys Leu Lys Ala Met Glu Glu Lys Leu Lys Ala Met Glu Glu Lys Met
             35
AAG GCG TGATAGGTAC CG
                                                                 160
Lys Ala
         50
      INFORMATION FOR SEQ ID NO:30:
(2)
            SEQUENCE CHARACTERISTICS:
                  LENGTH: 49 amino acids
            (A)
            (B)
                  TYPE: amino acid
            (D)
                  TOPOLOGY: linear
      (ii)
            MOLECULE TYPE: protein
      (xi)
            SEQUENCE DESCRIPTION: SEQ ID NO:30:
Met Glu Glu Lys Met Lys Ala Met Glu Glu Lys Leu Lys Ala Met Glu
  1
Glu Lys Leu Lys Ala Met Glu Glu Lys Leu Lys Ala Met Glu Glu Lys
                                 25
```

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

Leu Lys Ala Met Glu Glu Lys Leu Lys Ala Met Glu Glu Lys Met Lys 35 40 45	
Ala	
(2) INFORMATION FOR SEQ ID NO:31:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 160 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA (genomic)	
<pre>(vi) ORIGINAL SOURCE: (B) STRAIN: E. coli (G) CELL TYPE: DH5 alpha</pre>	
(vii) IMMEDIATE SOURCE: (B) CLONE: C20	
<pre>(ix) FEATURE: (A) NAME/KEY: CDS (B) LOCATION: 2151 (D) OTHER INFORMATION: /function= "synthetic storage protein"</pre>	
	46
GAG GAG AAG CTG AAG GCG ATG GAG GAG AAG CTG AAG GCG ATG GAG GAG Glu Glu Lys Leu Lys Ala Met Glu Glu Lys Leu Lys Ala Met Glu Glu 25 30	94
AAG CTG AAG GCG ATG GAG GAG AAG CTG AAG GCG ATG GAA GAG AAG ATG Lys Leu Lys Ala Met Glu Glu Lys Leu Lys Ala Met Glu Glu Lys Met 35 40 45	42
AAG GCG TGATAGGTAC CG Lys Ala 50	60

(2) INFORMATION FOR SEQ ID NO:32:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 49 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: protein

(xi) S	SEQUENCE DESCRIPTION: SEQ ID NO:32:										
Met Glu Glu I 1	Lys Met Lys Ala Met Glu Glu Lys Leu Lys Ala Met Glu 5 10 15										
Glu Lys Leu I	Lys Ala Met Glu Glu Lys Leu Lys Ala Met Glu Glu Lys 20 25 30										
Leu Lys Ala M 35	Met Glu Glu Lys Leu Lys Ala Met Glu Glu Lys Met Lys 40 45										
Ala											
(2) INFORMA	ATION FOR SEQ ID NO:33:										
(i)											
(ii)	MOLECULE TYPE: DNA (genomic)										
(vi) ORIGINAL SOURCE:(B) STRAIN: E. coli(G) CELL TYPE: DH5 alpha											
(vii) IMMEDIATE SOURCE: (B) CLONE: C30											
<pre>(ix) FEATURE: (A) NAME/KEY: CDS (B) LOCATION: 2130 (D) OTHER INFORMATION: /function= "synthetic storage protein"</pre>											
<u>(</u> xi)	SEQUENCE DESCRIPTION: SEQ ID NO:33:										
	G AAG ATG AAG GCG ATG GAG GAG AAG CTG AAG GCG ATG Lys Met Lys Ala Met Glu Glu Lys Leu Lys Ala Met 5 10 15	46									
	ETG AAG GCG ATG GAG GAG AAG CTG AAG GCG ATG GAG GAG Leu Lys Ala Met Glu Glu Lys Leu Lys Ala Met Glu Glu 20 25 30	94									

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AAG CTG AAG GCG ATG GAA GAG AAG ATG AAG GCG TGATAGGTAC CG Lys Leu Lys Ala Met Glu Glu Lys Met Lys Ala 35 40

- (2) INFORMATION FOR SEQ ID NO:34:
 - SEQUENCE CHARACTERISTICS:
 - LENGTH: 42 amino acids
 - TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: protein
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:34:

Met Glu Glu Lys Met Lys Ala Met Glu Glu Lys Leu Lys Ala Met Glu 1 5 10

Glu Lys Leu Lys Ala Met Glu Glu Lys Leu Lys Ala Met Glu Glu Lys

Leu Lys Ala Met Glu Glu Lys Met Lys Ala

- (2) INFORMATION FOR SEQ ID NO:35:
 - SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 97 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: DNA (genomic)
 - (vi) ORIGINAL SOURCE:
 - (B) STRAIN: E. coli
 - (G) CELL TYPE: DH5 alpha
 - (vii) IMMEDIATE SOURCE:
 - (B) CLONE: D16
 - (ix) FEATURE:
 - (A) NAME/KEY: CDS
 - (B) LOCATION: 2..88
 - (D) OTHER INFORMATION: /function= "synthetic storage protein" /product= "protein" /gene= "ssp" /standard name=

"5.5.5.5"

- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:35:
- C ATG GAG GAG AAG ATG AAG GCG ATG GAG GAG AAG ATG AAG GCG ATG Met Glu Glu Lys Met Lys Ala Met Glu Glu Lys Met Lys Ala Met
- GAG GAG AAG ATG AAG GCG ATG GAA GAG AAG ATG AAG GCG TGATAGGTAC Glu Glu Lys Met Lys Ala Met Glu Glu Lys Met Lys Ala 20 25

CG

- (2) INFORMATION FOR SEQ ID NO:36:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 28 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: protein
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:36:

Met Glu Glu Lys Met Lys Ala Met Glu Glu Lys Met Lys Ala Met Glu

1 5 10 15

Glu Lys Met Lys Ala Met Glu Glu Lys Met Lys Ala 20 25

- (2) INFORMATION FOR SEQ ID NO:37:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 118 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: DNA (genomic)
 - (vi) ORIGINAL SOURCE:
 - (B) STRAIN: E. coli
 - (G) CELL TYPE: DH5 alpha
 - (vii) IMMEDIATE SOURCE:
 - (B) CLONE: D20
 - (ix) FEATURE:
 - (A) NAME/KEY: CDS
 - (B) LOCATION: 2..109
 - (D) OTHER INFORMATION: /function= "synthetic storage protein"

/product= "protein"
/gene= "ssp"
/standard_name=

"5.5.5.5.5"

- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:37:
- C ATG GAG GAG AAG ATG AAG GCG ATG GAG GAG AAG ATG AAG GCG ATG

 Met Glu Glu Lys Met Lys Ala Met Glu Glu Lys Met Lys Ala Met

 1 5 10 15
- GAG GAG AAG ATG AAG GCG ATG GAG GAG AAG ATG AAG GCG ATG GAA GAG 94
 Glu Glu Lys Met Lys Ala Met Glu Glu Lys Met Lys Ala Met Glu Glu
 20 25 30

AAG ATG AAG GCG TGATAGGTAC CG Lys Met Lys Ala

118

35

- (2) INFORMATION FOR SEQ ID NO:38:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 35 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: protein
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:38:

Met Glu Glu Lys Met Lys Ala Met Glu Glu Lys Met Lys Ala Met Glu

1 5 10 15

Glu Lys Met Lys Ala Met Glu Glu Lys Met Lys Ala Met Glu Glu Lys
20 25 30

Met Lys Ala

- (2) INFORMATION FOR SEQ ID NO:39:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 97 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: DNA (genomic)
 - (vi) ORIGINAL SOURCE:
 - (B) STRAIN: E. coli
 - (G) CELL TYPE: DH5 alpha
 - (vii) IMMEDIATE SOURCE:
 - (B) CLONE: D33
 - (ix) FEATURE:
 - (A) NAME/KEY: CDS
 - (B) LOCATION: 2..88
 - (D) OTHER INFORMATION: /function= "synthetic

storage protein"

/product= "protein"

/gene= "ssp"
/standard_name=

"5.5.5.5"

- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:39:
- C ATG GAG GAG AAG ATG AAG GCG ATG GAG GAG AAG ATG AAG GCG ATG
 Met Glu Glu Lys Met Lys Ala Met Glu Glu Lys Met Lys Ala Met

 1 5 10 15

GAG GAG AAG ATG AAG GCG ATG GAA GAG AAG ATG AAG GCG TGATAGGTAC 95
Glu Glu Lys Met Lys Ala Met Glu Glu Lys Met Lys Ala
20 25

CG			97
(2)	INFOR	MATION FOR SEQ ID NO:40:	
	(i)	SEQUENCE CHARACTERISTICS:	
		(A) LENGTH: 28 amino acids	
		(B) TYPE: amino acid (D) TOPOLOGY: linear	
		1-7 10-0001	
	(ii)	MOLECULE TYPE: protein	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:40:	
Met 1	Glu Glu	Lys Met Lys Ala Met Glu Glu Lys Met Lys Ala Met 5 10 15	Glu
Glu	Lys Met	Lys Ala Met Glu Glu Lys Met Lys Ala 20 25	
(2)	INFOR	MATION FOR SEQ ID NO:41:	
	(i)	SEQUENCE CHARACTERISTICS:	
		(A) LENGTH: 21 base pairs	
		(B) TYPE: nucleic acid	
		(C) STRANDEDNESS: single (D) TOPOLOGY: linear	
		(b) Torobodi: Timear	
	(ii)	MOLECULE TYPE: DNA (genomic)	
	(ix)	FEATURE:	
		(A) NAME/KEY: misc_feature	
		(B) LOCATION: 121	
	•	(D) OTHER INFORMATION: /product= "synthetic oligonucleotide"	
		/standard_name= "SM	1
		86"	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:41:	
GATG	GAGGAG A	AAGCTGAAGA A 21	
(2)	INFORM	MATION FOR SEQ ID NO:42:	
	(i)	SEQUENCE CHARACTERISTICS:	
		(A) LENGTH: 21 base pairs	
		(B) TYPE: nucleic acid	
		(C) STRANDEDNESS: single (D) TOPOLOGY: linear	
		(a) Lorobodi. Tingar	
	(ii)	MOLECULE TYPE: DNA (genomic)	
	(ix)	FEATURE:	
		(A) NAME/KEY: misc_feature	
		(B) LOCATION: 121	

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OTHER INFORMATION:

/product= "synthetic oligonucleotide" /standard_name= "SM

87"

(D)

(xi)	SEQUENCE DESCRIPTION: SEQ I	NO:42:
ATCTTCTTCA	GCTTCTCCTC C	21
(2) INFO	RMATION FOR SEQ ID NO:43:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: DNA (genomic)
(ix)	FEATURE: (A) NAME/KEY: misc_feature (B) LOCATION: 121 (D) OTHER INFORMATION: /pr	
(xi)	SEQUENCE DESCRIPTION: SEQ II	NO:43:
GATGGAGGAG	AAGCTGAAGT G	21
(2) INFOR	RMATION FOR SEQ ID NO:44:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: DNA (genomic)	
(ix)	FEATURE: (A) NAME/KEY: misc_feature (B) LOCATION: 121 (D) OTHER INFORMATION: /pr	coduct= "synthetic oligonucleotide" /standard_name= "SM 89"
(xi)	SEQUENCE DESCRIPTION: SEQ II	NO:44:
ATCCACTTCA	GCTTCTCCTC C	21
(2) INFOR	MATION FOR SEQ ID NO:45:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: DNA (genomic)	

	(ix	(A) NAME/KEY: misc_feat (B) LOCATION: 121	ure /product= "synthetic oligonucleotide" /standard_name= "SN 90"
	(xi) SEQUENCE DESCRIPTION: SEQ	ID NO:45:
	GATGGAGGA	G AAGATGAAGA A	21
	(2) INF	ORMATION FOR SEQ ID NO:46:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pai (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ii) MOLECULE TYPE: DNA (genom	ic)
	(ix	(A) NAME/KEY: misc_feat (B) LOCATION: 121	ure /product= "synthetic oligonucleotide" /standard_name= "SM 91"
•	(xi	SEQUENCE DESCRIPTION: SEQ	ID NO:46:
	ATCTTCTTC	A TCTTCTCCTC C	21
	(2) INF	ORMATION FOR SEQ ID NO:47:	
	(i	SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pair (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ii)	MOLECULE TYPE: DNA (genomi	Lc)
	(ix	(A) NAME/KEY: misc_featu (B) LOCATION: 121	re /product= "synthetic oligonucleotide" /standard_name= "SM 92"
	(xi)	SEQUENCE DESCRIPTION: SEQ	ID NO:47:
	GATGGAGGA	AAGATGAAGT G	21

- (2) INFORMATION FOR SEQ ID NO:48: SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid イビナ STRANDEDNESS: Single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: DNA (genomic) (ix) FEATURE: (A) NAME/KEY: misc_reature (B) LOCATION: 1..21 OTHER INFORMATION: /product= "synthetic (D) oligonucleotide" /standard name= "SM 93" (xi) SEQUENCE DESCRIPTION: SEQ ID NO:48: ATCCACTTCA TCTTCTCCTC C 21 (2) INFORMATION FOR SEQ ID NO:49: SEQUENCE CHARACTERISTICS: (A) LENGTH: 7 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: unknown (D) TOPOLOGY: unknown (ii) MOLECULE TYPE: protein (xi) SEQUENCE DESCRIPTION: SEQ ID NO:49: Met Glu Glu Lys Leu Lys Lys (2) INFORMATION FOR SEQ ID NO:50: SEQUENCE CHARACTERISTICS: LENGTH: 7 amino acids (A) (B) TYPE: amino acid (C) STRANDEDNESS: unknown (D) TOPOLOGY: unknown
 - (ii) MOLECULE TYPE: protein
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:50:

Met Glu Glu Lys Leu Lys Trp
1 5

- (2) INFORMATION FOR SEQ ID NO:51:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 7 amino acids
 - (B) TYPE: amino acid

- (C) STRANDEDNESS: unknown
- (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: protein
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:51:

Met Glu Glu Lys Met Lys Lys 1 5

- (2) INFORMATION FOR SEQ ID NO:52:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 7 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: unknown
 - (D) TOPOLOGY: unknown
 - (ii) MOLECULE TYPE: protein
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:52:

Met Glu Glu Lys Met Lys Trp 5

- (2) INFORMATION FOR SEQ ID NO:53:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 160 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: DNA (genomic)
 - (vi) ORIGINAL SOURCE:
 - (B) STRAIN: E. coli
 - (G) CELL TYPE: DH5 alpha
 - (vii) IMMEDIATE SOURCE:
 - (B) CLONE: 82-4
 - (ix) FEATURE:
 - (A) NAME/KEY: CDS
 - (B) LOCATION: 2..151
 - (D) OTHER INFORMATION: /function= "synthetic storage protein

/product= "protein" /gene= "ssp"

/standard_name= "7.7.7.7.7.5"

- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:53:
- C ATG GAG GAG AAG CTG AAG GCG ATG GAG GAG AAG CTG AAG GCG ATG
 Met Glu Glu Lys Leu Lys Ala Met Glu Glu Lys Leu Lys Ala Met

 1 5 10 15

GAG GAG AAG CTG AAG GCG ATG GAG GAG AAG CTG AAG GCG ATG GAG GAG 94
Glu Glu Lys Leu Lys Ala Met Glu Glu Lys Leu Lys Ala Met Glu Glu
20 25 30

AAG CTG AAG GCG ATG GAG GAG AAG CTG AAG GCG ATG GAA GAG AAG ATG 142 Lys Leu Lys Ala Met Glu Glu Lys Leu Lys Ala Met Glu Glu Lys Met 35 40 45

AAG GCG TGATAGGTAC CG Lys Ala

160

50

- (2) INFORMATION FOR SEQ ID NO:54:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 49 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: protein
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:54:

Met Glu Glu Lys Leu Lys Ala Met Glu Glu Lys Leu Lys Ala Met Glu

1 5 10 15

Glu Lys Leu Lys Ala Met Glu Glu Lys Leu Lys Ala Met Glu Glu Lys
20 25 30

Leu Lys Ala Met Glu Glu Lys Leu Lys Ala Met Glu Glu Lys Met Lys
35 40 45

Ala

- (2) INFORMATION FOR SEQ ID NO:55:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 97 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: DNA (genomic)
 - (vi) ORIGINAL SOURCE:
 - (B) STRAIN: E. coli
 - (G) CELL TYPE: DH5 alpha
 - (vii) IMMEDIATE SOURCE:
 - (B) CLONE: 84-H3
 - (ix) FEATURE:
 - (A) NAME/KEY: CDS
 - (B) LOCATION: 2..88
 - (D) OTHER INFORMATION: /function= "synthetic storage protein /product= "protein"

/gene= "ssp"
/standard_name=
"5.5.5.5"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:55:

C ATG GAG GAG AAG ATG AAG GCG ATG GAG GAG AAG ATG AAG GCG ATG
Met Glu Glu Lys Met Lys Ala Met Glu Glu Lys Met Lys Ala Met

1 5 10 15

GAG GAG AAG ATG AAG GCG ATG GAA GAG AAG ATG AAG GCG TGATAGGTAC 95
Glu Glu Lys Met Lys Ala Met Glu Glu Lys Met Lys Ala
20 25

CG

97

- (2) INFORMATION FOR SEQ ID NO:56:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 28 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: protein
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:56:

Met Glu Glu Lys Met Lys Ala Met Glu Glu Lys Met Lys Ala Met Glu

1 5 10 15

Glu Lys Met Lys Ala Met Glu Glu Lys Met Lys Ala 20 25

- (2) INFORMATION FOR SEQ ID NO:57:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 97 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: DNA (genomic)
 - (vi) ORIGINAL SOURCE:
 - (B) STRAIN: E. coli
 - (G) CELL TYPE: DH5 alpha
 - (vii) IMMEDIATE SOURCE:
 - (B) CLONE: 86-H23
 - (ix) FEATURE:
 - (A) NAME/KEY: CDS
 - (B) LOCATION: 2..88
 - (D) OTHER INFORMATION: /function= "synthetic storage protein /product= "protein" /gene= "ssp"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:57:

C ATG GAG GAG AAG ATG AAG GCG ATG GAG GAG AAG CTG AAG AAG ATG
Met Glu Glu Lys Met Lys Ala Met Glu Glu Lys Leu Lys Lys Met

1 5 10 15

GAG GAG AAG CTG AAG AAG ATG GAA GAG AAG ATG AAG GCG TGATAGGTAC 95
Glu Glu Lys Leu Lys Lys Met Glu Lys Met Lys Ala
20 25

CG

97

- (2) INFORMATION FOR SEQ ID NO:58:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 28 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: protein
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:58:

Met Glu Glu Lys Met Lys Ala Met Glu Glu Lys Leu Lys Lys Met Glu

1 5 10 15

Glu Lys Leu Lys Lys Met Glu Glu Lys Met Lys Ala 20 25

- (2) INFORMATION FOR SEQ ID NO:59:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 112 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: DNA (genomic)
 - (vi) ORIGINAL SOURCE:
 - (B) STRAIN: E. coli
 - (G) CELL TYPE: DH5 alpha
 - (vii) IMMEDIATE SOURCE:
 - (B) CLONE: 88-2
 - (ix) FEATURE:
 - (A) NAME/KEY: CDS
 - (B) LOCATION: 2..103
 - (D) OTHER INFORMATION: /function= "synthetic storage protein /product= "protein" /gene= "ssp" /standard name=

"5.9.9.9.5"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:59:

C ATG GAG GAG AAG ATG AAG GCG AAG AAG CTG AAG TGG ATG GAG GAG
Met Glu Glu Lys Met Lys Ala Lys Lys Leu Lys Trp Met Glu Glu

1 5 10 15

AAG CTG AAG TGG ATG GAG GAG AAG CTG AAG TGG ATG GAA GAG AAG ATG 94 Lys Leu Lys Trp Met Glu Glu Lys Leu Lys Trp Met Glu Glu Lys Met 20 25 30

AAG GCG TGATAGGTAC CG Lys Ala

112

- (2) INFORMATION FOR SEQ ID NO:60:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 33 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: protein
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:60:

Met Glu Glu Lys Met Lys Ala Lys Lys Leu Lys Trp Met Glu Glu Lys

1 10 15

Leu Lys Trp Met Glu Glu Lys Leu Lys Trp Met Glu Glu Lys Met Lys
20 25 30

Ala

- (2) INFORMATION FOR SEQ ID NO:61:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 118 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: DNA (genomic)
 - (vi) ORIGINAL SOURCE:
 - (B) STRAIN: E. coli
 - (G) CELL TYPE: DH5 alpha
 - (vii) IMMEDIATE SOURCE:
 - (B) CLONE: 90-H8
 - (ix) FEATURE:
 - (A) NAME/KEY: CDS
 - (B) LOCATION: 2..109
 - (D) OTHER INFORMATION: /function= "synthetic storage protein /product= "protein" /gene= "ssp"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:61:

C ATG GAG GAG AAG ATG AAG GCG ATG GAG GAG AAG ATG AAG AAG ATG
Met Glu Glu Lys Met Lys Ala Met Glu Glu Lys Met Lys Lys Met

1 5 10 15

AAG ATG AAG GCG TGATAGGTAC CG Lys Met Lys Ala 118

- (2) INFORMATION FOR SEQ ID NO:62:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 35 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: protein
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:62:

Met Glu Glu Lys Met Lys Ala Met Glu Glu Lys Met Lys Met Glu

1 1 5 15

Glu Lys Met Lys Lys Met Glu Glu Lys Met Lys Lys Met Glu Glu Lys
. 20 25 30

Met Lys Ala

- (2) INFORMATION FOR SEQ ID NO:63:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 97 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: DNA (genomic)
 - (vi) ORIGINAL SOURCE:
 - (B) STRAIN: E. coli
 - (G) CELL TYPE: DH5 alpha
 - (vii) IMMEDIATE SOURCE:
 - (B) CLONE: 92-2
 - (ix) FEATURE:
 - (A) NAME/KEY: CDS
 - (B) LOCATION: 2..88

(D) OTHER INFORMATION: /function= "synthetic storage protein /product= "protein" /gene= "ssp" /standard_name= "5.11.11.5" (xi) SEQUENCE DESCRIPTION: SEQ ID NO:63: C ATG GAG GAG AAG ATG AAG GCG ATG GAG GAG AAG ATG AAG TGG ATG 46 Met Glu Glu Lys Met Lys Ala Met Glu Glu Lys Met Lys Trp Met 1 95 Glu Glu Lys Met Lys Trp Met Glu Glu Lys Met Lys Ala 20 CG 97 (2) INFORMATION FOR SEQ ID NO:64: SEQUENCE CHARACTERISTICS: LENGTH: 28 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (ii) MOLECULE TYPE: protein (xi) SEQUENCE DESCRIPTION: SEQ ID NO:64: Met Glu Glu Lys Met Lys Ala Met Glu Glu Lys Met Lys Trp Met Glu 1 5 10 Glu Lys Met Lys Trp Met Glu Glu Lys Met Lys Ala (2) INFORMATION FOR SEQ ID NO:65: SEQUENCE CHARACTERISTICS: LENGTH: 84 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: DNA (genomic) (ix) FEATURE: (A) NAME/KEY: misc feature (B) LOCATION: 1..84 (D) OTHER INFORMATION: /product= "synthetic oligonucleotide" /standard_name= "SM SEQUENCE DESCRIPTION: SEQ ID NO:65: GATGGAGGAA AAGATGAAGG CGATGGAGGA GAAAATGAAA GCTATGGAGG AAAAGATGAA 60

AGC	GATGGAG	GAGAAAATGA AGGC	84
(2)	INFOR	MATION FOR SEQ ID NO:66:	
	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 84 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ii)	MOLECULE TYPE: DNA (genomic)	
	(ix)	FEATURE: (A) NAME/KEY: misc_feature (B) LOCATION: 184 (D) OTHER INFORMATION: /product= "synthetic oligonucleotide" /standard_name= "SM 97"	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:66:	
ATC	SCCTTCA !	TTTTCTCCTC CATCGCTTTC ATCTTTTCCT CCATAGCTTT CATTTTCTCC	60
TCC	ATCGCCT :	CATCTTTTC CTCC	84
(2)	INFOR	MATION FOR SEQ ID NO:67:	
	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 28 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: unknown (D) TOPOLOGY: unknown	
	(ii)	MOLECULE TYPE: protein	
	(ix)	FEATURE: (A) NAME/KEY: Protein (B) LOCATION: 128 (D) OTHER INFORMATION: /label= name /note= "(SSP 5)4"	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:67:	
Met 1	Glu Glu	Lys Met Lys Ala Met Glu Glu Lys Met Lys Ala Met Glu 5 10 15	
Glu	Lys Met	Lys Ala Met Glu Glu Lys Met Lys Ala 20 25	

- (2) INFORMATION FOR SEQ ID NO:68:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 84 base pairs
 - TYPE: nucleic acid (B)
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(ii)	MOLECULE TYPE: DNA (genomic)	
(ix)		
	(A) NAME/KEY: misc feature	
	(B) LOCATION: 184 (D) OTHER INFORMATION: /product= "synthetic oligonucleotide" /standard_name= "SM 98"	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:68:	
GATGGAGGAA	AAGCTGAAAG CGATGGAGGA GAAACTCAAG GCTATGGAAG AAAAGCTTAA	60
AGCGATGGAG	GAGAAACTGA AGGC	84
(2) INFO	RMATION FOR SEQ ID NO:69:	
(i)	SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 84 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: single	
	(D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: DNA (genomic)	
(ix)	FEATURE:	
	(A) NAME/KEY: misc_feature	
	(B) LOCATION: 184	
	(D) OTHER INFORMATION: /product= "synthetic oligonucleotide"	
	/standard_name= "SM	
	. 99 *	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:69:	
ATCGCCTTCA	GTTTCTCCTC CTACGCTTTA AGCTTTTCTT CCATAGCCTT GAGTTTCTCC	60
TCCATCGCTT	TCAGCTTTTC CTCC	84
(2) INFOR	RMATION FOR SEQ ID NO:70:	
(i)	12	
	(A) LENGTH: 28 amino acids	
	(B) TYPE: amino acid (C) STRANDEDNESS: unknown	
	(C) STRANDEDNESS: unknown (D) TOPOLOGY: unknown	
(ii)	MOLECULE TYPE: protein	
(ix)	FEATURE:	
	(A) NAME/KEY: Protein	
	(B) LOCATION: 128	
	(D) OTHER INFORMATION: /label= name /note= "(SSP 7)4"	
4 9 A		
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:70:	

Met 1	Glu	Glu	Lys	Leu 5	ГЛЗ	Ala	Met	Glu	Glu 10	ГЛЗ	Leu	Lys	Ala	Met 15	Glu	
Glu	Lys	Leu	Lys 20	Ala	Met	Glu	Glu	Lys 25	Leu	Lys	Ala					
(2)	11	NFOR	MATIC	ON F	OR SI	EQ II	ON C	:71:								
		(i)	SEQU	JENCI	E CHA	ARAC'	reri:	STICS	3:							
			(A)		ENGT			-	pairs	3						
			(B)		PE:	nuc	cleid	aci sir	id.							
			(D)	T	OPOLO				ngre							
	t)	Li)	MOLE	CULI	E TYP	PE:	DNA	(ger	nomic	>)						
	i)	ix)	FEAT		:											
			(A)		ME/F				eatur	:e						
			(B) (D)	O.1	CATI			.84 "ION:	. /~	rod:	.ot-	"syr	+ ha+			
			(2)	0.		1111	\trans	1.014.	· / <u>F</u>			ıcled				
														= "SM	1	
										100) #					
	к)	ci)	SEQU	ENCE	DES	CRIE	TION	1: S	SEQ I	D NC):71:	:				
GATG	GAGG	SAA A	AGCI	TAAC	A AG	ATG	SAAGA	AAA	AGCTG	AAA	TGGA	TGGA	GG A	GAAA	ACTCAA	60
AAAG	ATGG	SAG G	AAAA	GCTI	'A AA	TG										84
(2)	IN	IFORM	ATIO	N FC	R SE	Q II	NO:	72:								
	((i) .	SEQU	ENCE	CHA	RACI	ERIS	TICS	: :							
			(A)		NGTH	l: 8	4 ba	se p	airs	}						
				TY				aci								
					RAND				gle							
			(D)	10	POLO	GI:	lin	lear								
	(i	.i)	MOLE	CULE	TYP	E:	DNA	(gen	omic	:)						
	(i	.x)	FEAT													
			(A)						atur	e						
					CATI			84 ION:	/-	~~~		П				
			(2)	OI	nek	TME	LUMA	TON:	<i>/</i> p			"syn				
														"SM	i	
										101						
	(x	i)	SEQU	ENCE	DES	CRIP	TION	: s	EQ I	D NO	:72:					
ATCC.	ATTT.	AA G	CTTT	TCCT	C CT	ACTT	TTTG	AGT	TTCT	CCT	CCAT	CCAT	TT C	AGCT	TTTCT	60
CCA	TCTT	CT T	AAGC'	TTTT	C CT	CC										84
(2)	IN	FORM	ATIO1	N FO	R SE	Q ID	NO:	73:								
	(:	i)	SEQUI						: acid	•						
			·/	-110		. 4	у дин		C	ت						

(ii) MOLECULE TYPE: protein	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:73:	
Met Glu Glu Lys Leu Lys Lys Met Glu Glu Lys Leu Lys Trp Met Glu 1 5 10 15	
Glu Lys Leu Lys Lys Met Glu Glu Lys Leu Lys Trp 20 25	
(2) INFORMATION FOR SEQ ID NO:74:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 243 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: DNA (genomic)	
<pre>(vi) ORIGINAL SOURCE: (B) STRAIN: E. coli (G) CELL TYPE: DH5 alpha</pre>	
(vii) IMMEDIATE SOURCE: (B) CLONE: 2-9	
(ix) FEATURE: (A) NAME/KEY: CDS (B) LOCATION: 2235 (D) OTHER INFORMATION: /function= "synthetic storage protein /product= "protein" /gene= "ssp" /standard_name= "7.7.7.7.7.7.8.9.8.9.5"	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:74:	
C ATG GAG GAG AAG CTG AAG GCG ATG GAG GAG AAG CTG AAG GCG ATG Met Glu Glu Lys Leu Lys Ala Met Glu Glu Lys Leu Lys Ala Met 1 5 10 15	46
GAG GAG AAG CTG AAG GCG ATG GAG GAG AAG CTG AAG GCG ATG GAG GAG Glu Glu Lys Leu Lys Ala Met Glu Glu Lys Leu Lys Ala Met Glu Glu 25 30	94
AAG CTG AAG GCG ATG GAG GAG AAG CTG AAG GCG ATG GAG GAA AAG CTT Lys Leu Lys Ala Met Glu Glu Lys Leu Lys Ala Met Glu Glu Lys Leu 35 40 45	42
AAG AAG ATG GAA GAA AAG CTG AAA TGG ATG GAG GAG AAA CTC AAA AAG 1 Lys Lys Met Glu Glu Lys Leu Lys Trp Met Glu Glu Lys Leu Lys Lys 50 55 60	.90
150	

TYPE: amino acid

TOPOLOGY: unknown

STRANDEDNESS: unknown

(B) (C)

(D)

ATG GAG GAA AAG CTT AAA TGG ATG GAA GAG AAG ATG AAG GCG TGATAGGTAC 242
Met Glu Glu Lys Leu Lys Trp Met Glu Glu Lys Met Lys Ala
65 70 75

C 243

- (2) INFORMATION FOR SEQ ID NO:75:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 77 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: protein
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:75:

Met Glu Glu Lys Leu Lys Ala Met Glu Glu Lys Leu Lys Ala Met Glu 1 5 10 15

Glu Lys Leu Lys Ala Met Glu Glu Lys Leu Lys Ala Met Glu Glu Lys
20 25 30

Leu Lys Ala Met Glu Glu Lys Leu Lys Ala Met Glu Glu Lys Leu Lys
35 40 45

Lys Met Glu Glu Lys Leu Lys Trp Met Glu Glu Lys Leu Lys Met 50 55 60

Glu Glu Lys Leu Lys Trp Met Glu Glu Lys Met Lys Ala 65 70 75

- (2) INFORMATION FOR SEQ ID NO:76:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 175 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: DNA (genomic)
 - (vi) ORIGINAL SOURCE:
 - (B) STRAIN: E. coli
 - (G) CELL TYPE: DH5 alpha
 - (vii) IMMEDIATE SOURCE:
 - (B) CLONE: 5-1
 - (ix) FEATURE:
 - (A) NAME/KEY: CDS
 - (B) LOCATION: 2..172
 - (D) OTHER INFORMATION: /function= "synthetic storage protein /product= "protein" /gene= "ssp"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:76:

- C ATG GAG GAG AAG ATG AAG GCG ATG GAG GAG AAG ATG AAG GCG ATG
 Met Glu Glu Lys Met Lys Ala Met Glu Glu Lys Met Lys Ala Met

 1 5 10 15
- GAG GAG AAG ATG AAG GCG ATG GAG GAA AAG CTG AAA GCG ATG GAG GAG 94
 Glu Glu Lys Met Lys Ala Met Glu Glu Lys Leu Lys Ala Met Glu Glu
 20 25 30

AAA CTC AAG GCT ATG GAA GAA AAG CTT AAA GCG ATG GAG GAG AAA CTG 142 Lys Leu Lys Ala Met Glu Glu Lys Leu Lys Ala Met Glu Glu Lys Leu 35 40 45

AAG GCC ATG GAA GAG AAG ATG AAG GCG TGATAG Lys Ala Met Glu Glu Lys Met Lys Ala 50 55

179

- (2) INFORMATION FOR SEQ ID NO:77:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 56 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: protein
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:77:

Met Glu Glu Lys Met Lys Ala Met Glu Glu Lys Met Lys Ala Met Glu

1 5 10 15

Glu Lys Met Lys Ala Met Glu Glu Lys Leu Lys Ala Met Glu Glu Lys 20 25 30

Leu Lys Ala Met Glu Glu Lys Leu Lys Ala Met Glu Glu Lys Leu Lys
35 40 45

Ala Met Glu Glu Lys Met Lys Ala 50 55

- (2) INFORMATION FOR SEQ ID NO:78:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 187 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: DNA (genomic)
 - (vi) ORIGINAL SOURCE:
 - (B) STRAIN: E. coli
 - (G) CELL TYPE: DH5 alpha

		(ix)		TURE												
				(A)			KEY:		_								
				(B) (D)			ION:		.173	. ,	£		n.	t h			
				(D)	0.	Inen	LINE	ORTA	TION	• /				otei	etic In		
															otein	n	
											_	ene-		_			
														name	9=		
											* 5	SP-3	3-5"				
			/		e () tre	MOR	DECC	D T D M	TON.	C III	O TD		70.				
			(xi)	31	eðor.	NCE	DESC	KIPT	ION:	ŞE	Q ID	NO:	78:				
	CC 2	ATG (GAG (GAG A	AAG (CTG	AAG	GCG :	ATG (GAG :	GAG	AAG	CTG	AAG	GCG 2	ATG	47
															Ala		• •
		1				5					10			_		15	
	~~~	~~~															
															GAG		95
	GIU	GLU	ту	ren	பழ் s 20	ATG	met	GIU	GIU	ьуs 25	ьeu	гда	АТа	Met	Glu 30	GLu	
					~-0					23					30		
	AAG	CTG	AAG	GCG	ATG	GAG	GAG	AAG	CTG	AAG	GCG	ATG	GAG	GAA	AAG	ATG	143
															Lys		
				35					40					45	,		
	330	000	3.00	~~~	~~~												
				GAA Glu						TGA	TAGG	TAC	CGAA	TTC			187
	y 3		50	G.L. u	GLU	nys	Mec	55	пта								
	(2)	II	NFOR	OITAN	N F	OR S	EQ I	D NO	:79:								
										_							
			(i)						STICS		•						
				(A) (B)		ENGT: (PE:		ino a	mino	acı	as						
			•	(D)			OGY:		near								
				\ <i>,</i>													
		(:	ii)	MOLE	CUL	TY	PE:	prot	tein								
		(2	Ki)	SEQU	JENCE	E DE	SCRI	PTIO	N: S	SEQ .	ID N	0:79	:				
	Met	Glu	Glu	Lvs	Leu	Lvs	Âla	Met	Glu	G1 11	Lvs	T.e.n	T.vre	Δla	Met	G1 11	
	1		<b>U_</b>	_,,	5	2,0		1100	014	10	LJ 3	Dea	цуз	NIG.	15	GIU	
•	Glu	Lys	Leu		Ala	Met	Glu	Glu	ГЛЗ	Leu	Lys	Ala	Met	Glu	Glu	Lys	
				20					25					30			
	T.011	Tara	פות	Mat	G1 11	G1.,	T ***	T 011	T ***	710	Wot	C1	C1	T	Wat	T	
	neu	nys	35	Mec	GIU	Gru	пуз	40	пÃг	AIG	Met	GIU	45	_	Met	туя	
													10				
	Ala	Met	Glu	Glu	Lys	Met	Lys	Ala									
		50					55										
*	(2)	II	vr'ORN	OITA	N FC	K SI	SQ II	NO:	:80: ,								
			(i)	SEOU	ENCE	CH2	ARACT	reris	STICS	<b>3</b> :							
		,		(A)		NGT			ase p		3						
				(B)	TY	PE:			aci								
				(C)			DEDNE			gle							
				(D)	TC	POL	GY:	lir	near								

	(ix)		TION:			oduct= "synthetic oligonucleotide" /standard_name= "SM 107"	
	(xi)	SEQUENCE D	ESCRIPT	CION: SE	Q ID	NO:80:	
CATGG	AGGAG	AGATGAAAA	AGCTCGA	AGA GAAG	ATGA	AG GTCATGAAGT GATAGGTACC	60
G							61
(2)	INFOR	MATION FOR	SEQ ID	NO:81:			
	(i)		TH: 61 : nucl NDEDNES LOGY:	base pa eic acid S: sing linear	le		
	(ii)	MOLECULE T	YPE: D	NA (geno	mic)		
	(ix)	FEATURE: (A) NAME (B) LOCA (D) OTHE	FION:	misc_fea 161 RMATION:		oduct= "synthetic ligonucleotide" /standard_name= "SM 106"	
	(xi)	SEQUENCE D	ESCRIPT	CION: SEQ	ID :	NO:81:	
AATTC	GGTAC	TATCACTTC .	ATGACCI	TCA TCTT	CTCT	IC GAGCTTTTTC ATCTTCTCCT	60
С			-				61
(2)	INFOR	ATION FOR	SEQ ID	NO:82:			
	(i)	(C) STRA	rh: 16 : amin NDEDNES	RISTICS: amino aco acid S: unknown			
	(ii)	MOLECULE T	YPE: p	rotein			
	(ix)	(B) LOCA	TION:	Protein 116 MATION:	-	oel= name /note= "pSK34 base gene"	

(ii) MOLECULE TYPE: DNA (genomic)

	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:82:	
Met 1	Glu Glu	Lys Met Lys Lys Leu Glu Glu Lys Met Lys Val Met Lys 5 10 15	
(2)	INFORM	MATION FOR SEQ ID NO:83:	
	(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 63 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
	(ii)	MOLECULE TYPE: DNA (genomic)	
	(ix)	FEATURE:  (A) NAME/KEY: misc_feature  (B) LOCATION: 163  (D) OTHER INFORMATION: /product= "synthetic oligonucleotide" /standard_name= "SM 110"	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:83:	
GCT	GGAAGAA 1	AAGATGAAGG CTATGGAGGA CAAGATGAAA TGGCTTGAGG AAAAGATGAA	60
GAA			63
(2)	INFORM	MATION FOR SEQ ID NO:84:	
		SEQUENCE CHARACTERISTICS:  (A) LENGTH: 63 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
	(ii)	MOLECULE TYPE: DNA (genomic)	
	(ix)	FEATURE:  (A) NAME/KEY: misc_feature  (B) LOCATION: 163  (D) OTHER INFORMATION: /product= "synthetic oligonucleotide" /standard_name= "SM 111"	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:84:	
AGC:	TTCTTCA 7	POTTTTCCTC AAGCCATTTC ATCTTGTCCT CCATAGCCTT CATCTTTTCT	60
TCC			63

- (2) INFORMATION FOR SEQ ID NO:85:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 37 amino acids
    - (B) TYPE: amino acid
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: protein
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:85:

Met Glu Glu Lys Met Lys Lys Leu Glu Glu Lys Met Lys Ala Met Glu
1 5 10 15

Asp Lys Met Lys Trp Leu Glu Glu Lys Met Lys Lys Leu Glu Glu Lys
20 25 30

Met Lys Val Met Lys 35

- (2) INFORMATION FOR SEQ ID NO:86:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 37 amino acids
    - (B) TYPE: amino acid
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: protein
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:86:

Met Glu Glu Lys Met Lys Lys Leu Glu Glu Lys Met Lys Ala Met Glu 1 . 5 10 15

Asp Lys Met Lys Trp Leu Glu Glu Lys Met Lys Leu Glu Glu Lys
20 25 30

Met Lys Val Met Lys 35

- (2) INFORMATION FOR SEQ ID NO:87:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 62 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: DNA (genomic)
  - (ix) FEATURE:
    - (A) NAME/KEY: misc feature
    - (B) LOCATION: 1..62
    - (D) OTHER INFORMATION: /product= "synthetic oligonucletide"

/standard_name= "SM 112"

	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:87:										
GCT	CGAAGAA	AGATGAAGGC AATGGAAGAC AAAATGAAGT GGCTTGAGGA GAAAATGAAG	60									
AA			62									
(2)	INFOR	MATION FOR SEQ ID NO:88:										
	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 62 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>											
	(ii)	MOLECULE TYPE: DNA (genomic)										
	(ix) FEATURE:  (A) NAME/KEY: misc_feature  (B) LOCATION: 162  (D) OTHER INFORMATION: /product= "synthetic oligonucleotide" /standard_name= "SM 113"											
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:88:										
AGC:	ITCTTCA	TTTTCTCCTC AAGCCACTTC ATTTTGTCTT CCATTGCCTT CATCTTTCTT	60									
CG			62									
(2)	INFOR	MATION FOR SEQ ID NO:89:										
	•	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 37 amino acids  (B) TYPE: amino acid  (D) TOPOLOGY: linear  MOLECULE TYPE: protein										
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:89:										
Met 1	Glu Glu	Lys Met Lys Lys Leu Lys Glu Glu Met Ala Lys Met Lys 5 10 15										
Asp	Glu Met	Trp Lys Leu Lys Glu Glu Met Lys Lys Leu Glu Glu Lys 20 25 30										
Met	Lys Val 35	Met Lys										
(2)	INFORM	MATION FOR SEQ ID NO:90:										
	(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 63 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear										

(ii	) MOLECULE TYPE: DNA (genomic)	
(ix	(A) NAME/KEY: misc_feature (B) LOCATION: 163 (D) OTHER INFORMATION: /product= "synthetic oligonucleotide" /standard_name= "SM 114"	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:90:	
GCTCAAGGA	G GAAATGGCTA AGATGAAAGA CGAAATCTGG AAACTGAAAG AGGAAATGAA 60	O
GAA	6:	3
(2) INFO	DRMATION FOR SEQ ID NO:91:	
(±)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 63 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
(11)	MOLECULE TYPE: DNA (genomic)	
(ix)	FEATURE:  (A) NAME/KEY: misc_feature  (B) LOCATION: 163  (D) OTHER INFORMATION: /product= "synthetic oligonucleotide" /standard_name= "SM 115"	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:91:	
AGCTTCTTC	TTTCCTCTTT CAGTTTCCAC ATTTCGTCTT TCATCTTAGC CATTTCCTCC 60	)
TTG	-	š
(2) INFO	RMATION FOR SEQ ID NO:92:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 107 amino acids  (B) TYPE: amino acid  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: protein	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:92:	
Met Glu Gl 1	u Lys Met Lys Lys Leu Lys Glu Glu Met Ala Lys Met Lys 5 10 15	
Asp Glu Me	t Trp Lys Leu Lys Glu Glu Met Lys Lys Leu Glu Glu Lys 20 25 30	
Met Lys Va	l Met Glu Glu Lys Met Lys Lys Leu Glu Glu Lys Met Lys	

Ala Met Glu Asp Lys Met Lys Trp Leu Glu Glu Lys Met Lys Lys Leu 50 55 60

Glu Glu Lys Met Lys Val Met Glu Glu Lys Met Lys Lys Leu Glu Glu 65 70 75 80

Lys Met Lys Ala Met Glu Asp Lys Met Lys Trp Leu Glu Glu Lys Met 85 90 95

Lys Lys Leu Glu Glu Lys Met Lys Val Met Lys 100 105

- (2) INFORMATION FOR SEQ ID NO:93:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 839 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: DNA (genomic)
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:93:

- (2) INFORMATION FOR SEQ ID NO:94:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 43 base pairs

(ii) MOLECULE TYPE: DNA (genomic)
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:94:
CTAGAAGCCT CGGCAACGTC AGCAACGGCG GAAGAATCCG GTG 43
(2) INFORMATION FOR SEQ ID NO:95:
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 43 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>
(ii) MOLECULE TYPE: DNA (genomic)
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:95:
CATGCACCGG ATTCTTCCGC CGTTGCTGAC GTTGCCGAGG CTT 43
(2) INFORMATION FOR SEQ ID NO:96:
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 55 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>
(ii) MOLECULE TYPE: DNA (genomic)
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:96:
GATCCCATGG CGCCCCTTAA GTCCACCGCC AGCCTCCCCG TCGCCCGCCG CTCCT 5
(2) INFORMATION FOR SEQ ID NO:97:
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 55 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>
(ii) MOLECULE TYPE: DNA (genomic)
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:97:
CTAGAGGAGC GGCGGCGAC GGGGAGGCTG GCGGTGGACT TAAGGGGCGC CATGG 5
(2) INFORMATION FOR SEQ ID NO:98:
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs

(B)

(C)

(D)

TYPE: nucleic acid STRANDEDNESS: single

TOPOLOGY: linear

TYPE: nucleic acid

(B)

			STRAND:			_				
	(ii)	MOLEC	ULE TYP	E: DN	A (g	enomic)	1			
	(xi)	SEQUE	NCE DES	CRIPTI	ON:	SEQ II	NO NO	:98:		
CATGG 59	CGCCC	ACCGTG	ATGA TG	GCCTCG	TC G	GCCACCO	GCC (	GTCGCT	CCGT	TCCAGGGG
(2)	INFOR	MATION	FOR SE	QIDN	0:99	:				
	(i)	(A)	NCE CHA LENGTH TYPE: STRAND TOPOLO	: 59	base	pairs				
	(ii)	MOLEC	ULE TYP	E: DN	A (g	enomic)	}			
	(xi)	SEQUE	NCE DES	CRIPTI	ON:	SEQ II	ON O	:99:		
TTAAG 59	CCCT	GGAACG	GAGC GA	CGGCGG	TG G	CCGACGA	AGG (	CCATCA	ATCAC	GGTGGGCGC
(2)	INFOR	MATION	FOR SE	Q ID N	0:10	0:				
	(i)	(A) (B)	TYPE: STRAND	: 16 nucle EDNESS	base ic a : s	pairs cid ingle				
	(ii)	MOLEC	ULE TYP	E: DN	A (g	enomic)	<b>)</b>			
	(xi)	SEQUE	NCE DES	CRIPTI	ON:	SEQ II	OM O	:100:		
GCGCC	CACCG	TGATGA							:	16
(2)	INFOR	MATION	FOR SE	QIDN	0:10	1:				
	(i)	SEQUEI (A) (B) (C) (D)	NCE CHA LENGTH TYPE: STRAND TOPOLO	: 16 nucle EDNESS	base ic a	pairs cid ingle				
	(ii)	MOLEC	ULE TYP	E: DN	A (g	enomic)	)			
	(xi)	SEQUE	NCE DES	CRIPTI	ON:	SEQ II	OM C	:101:		
CACCG	GATTC	TTCCGC							:	16
(2)	INFOR	MATION	FOR SE	QIDN	0:10	2:				
	(i)	SEQUEN (A) (B)	NCE CHA LENGTH TYPE:	: 372	bas	e pairs	3			

	(ii)	MOLECULE TYPE: DNA (genomic)	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:102:	
5	GTAAGATTGG	TAAAGTCCAG CAAGAAAATG AGATAAAAGA GAAGCCTGAA ATGACGAAAA	60
3	AATCAGGTGT	TTTGATTCTT GGTGCTGGAC GTGTGTNTCG CCCAGCTGCT GATTTCCTAG	120
	CTTCAGTTAG	AACCATTTCG TCACAGCAAT GGTACAAAAC ATATTTCGGA GCAGACTCTG	180
10	AAGAGAAAAC	AGATGTTCAT GTGATTGTCG CGTCTCTGTA TCTTAAGGAT GCCAAAGAGA	240
	CGGTTGAAGG	TATTTCAGAT GTAGAAGCAG TTCGGCTAGA TGTATCTGAT AGTGAAAGTC	300
15	TCCTTAAGTA	TGTTTCTCAG GTTGATGTTG TCCTAAGTTT ATTACCTGCA AGTTGTCATG	360
13	CTTGTTGTAG	CA	372
	(2) INFO	RMATION FOR SEQ ID NO:103:	
20	(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 323 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
	(ii)	MOLECULE TYPE: DNA (genomic)	
25	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:103:	
	GGAAGCACAC	TGCGACTCTT TTGGAATTCG GGGACATCAA GAATGGACAA ACAACAACCG	60
	CTATGGCCAA	GACTGTTGGG ATCCCTGCAG CCATTGGAGC TCTGCTGTTA ATTGAAGACA	120
30	AGATCAAGAC	AAGAGGAGTC TTAAGGCCTC TCGAAGCAGA GGTGTATTTG CCAGCTTTGG	180
	ATATATTGCA	AGCATATGGT ATAAAGCTGA TGGAGAAGGC AGAATGATCA AAGAACTCTG	240
35	TATATTGTTT	CTNTCTATAA CTTGGAGTTG GAGACAAAGC TGAAGGAGNC AGNGCCATTA	300
	GACCAGCAAA	AAAAGGAGGA GGA	323
	(2) INFO	RMATION FOR SEQ ID NO:104:	
40	(i)	<ul> <li>(A) LENGTH: 123 amino acids</li> <li>(B) TYPE: amino acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
	(ii)	MOLECULE TYPE: protein	

(C)

(D)

STRANDEDNESS: single

TOPOLOGY: linear

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(xi)		ci)	SEQ	JENCI	E DES	SCRI	PTION: SEQ ID NO:104:								
Lys 1	Ile	Gly	Lys	Val	Gln	Gln	Glu	Asn	Glu 10	Ile	Lys	Glu	Lys	Pro	Glu

Met Thr Lys Lys Ser Gly Val Leu Ile Leu Gly Ala Gly Arg Val Xaa

Arg Pro Ala Ala Asp Phe Leu Ala Ser Val Arg Thr Ile Ser Ser Gln 10

Gln Trp Tyr Lys Thr Tyr Phe Gly Ala Asp Ser Glu Glu Lys Thr Asp

15 Val His Val Ile Val Ala Ser Leu Tyr Leu Lys Asp Ala Lys Glu Thr

Val Glu Gly Ile Ser Asp Val Glu Ala Val Arg Leu Asp Val Ser Asp

Ser Glu Ser Leu Leu Lys Tyr Val Ser Gln Val Asp Val Val Leu Ser

Leu Leu Pro Ala Ser Cys His Ala Cys Cys Ser 25

- (2) INFORMATION FOR SEQ ID NO:105:
  - SEQUENCE CHARACTERISTICS:
    - LENGTH: 74 amino acids (A)
    - (B) TYPE: amino acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: protein

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:105:

35 Lys His Thr Ala Thr Leu Leu Glu Phe Gly Asp Ile Lys Asn Gly Gln

Thr Thr Thr Ala Met Ala Lys Thr Val Gly Ile Pro Ala Ala Ile Gly 25 .

Ala Leu Leu Leu Ile Glu Asp Lys Ile Lys Thr Arg Gly Val Leu Arg

Pro Leu Glu Ala Glu Val Tyr Leu Pro Ala Leu Asp Ile Leu Gln Ala 45

Tyr Gly Ile Lys Leu Met Glu Lys Ala Glu

- 50 INFORMATION FOR SEQ ID NO:106: (2)
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 25 base pairs
    - (B) TYPE: nucleic acid

	(D) TOPOLOGY: linear	
	(ii) MOLECULE TYPE: DNA (genomic)	
5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:106:	
J	ATTCCCCATG GTTTCGCCGA CGAAT	25
	(2) INFORMATION FOR SEQ ID NO:107:	
10	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 29 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
	(ii) MOLECULE TYPE: DNA (genomic)	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:107:	
1.5	CTCTCGGTAC CTAGTACCTA CTGATCAAC	29